

TABLE 51

Federal obligations for applied research performed at higher education institutions, by detailed field of R&D: FY 2021

(Dollars in thousands)

Field	2021
All fields	15,586,008
Computer and information sciences	405,887
Geosciences, atmospheric sciences, and ocean sciences	547,854
Atmospheric science and meteorology	94,218
Geological and earth sciences	44,737
Ocean sciences and marine sciences	194,331
Other geosciences, atmospheric sciences, and ocean sciences	214,568
Life sciences	9,587,056
Agricultural sciences	78,053
Biological and biomedical sciences	5,082,447
Health sciences	3,358,231
Natural resources and conservation	12,187
Other life sciences	1,056,138
Mathematics and statistics	101,455
Physical sciences	191,773
Astronomy and astrophysics	396
Chemistry	107,616
Materials science	17,522
Physics	45,063
Other physical sciences	21,176
Psychology	1,176,210
Biological aspects	0
Social aspects	3,201
Other psychological sciences	1,173,010
Social sciences	383,334
Anthropology	8,009
Economics	52,487
Political science and government	7,491
Sociology, demography, and population studies	36,575
Other social sciences	278,772
Engineering	1,837,098
Aerospace, aeronautical, and astronautical engineering	66,803
Bioengineering and biomedical engineering	83,989
Chemical engineering	129,653
Civil engineering	44,178
Electrical, electronics, and communications engineering	98,131
Industrial and manufacturing engineering	16,223
Mechanical engineering	56,005
Metallurgical and materials engineering	106,046
Other engineering	1,236,069
Other fields	1,355,341
Business management and business administration	52,515
Communication and communications technologies	1,812
Education research	422,446
Humanities	*
Law	370
Social work	0
Visual and performing arts	0
All other fields	878,164

* = amount greater than \$0 but less than \$50,000.

Note(s):

Because of rounding, detail may not add to total. FY 2021 obligations include additional funding provided by supplemental COVID-19 pandemic-related appropriations (e.g., Coronavirus Aid, Relief, and Economic Security [CARES] Act). As of volume 71 (FYs 2021–22), the fields of R&D (formerly, "fields of science and engineering") were revised for consistency with other National Center for Science and Engineering Statistics surveys; some fields were added, merged, or split, and some fields were renamed. Therefore, the data are not directly comparable with totals reported in previous years. See technical table A-3 for additional notes associated with the taxonomy changes to the fields listed in this table.

Source(s):

National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2021–22.